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Industrial Hygiene

DPM 6049

#1544

AUG 25 1989



MATERIAL SAFETY DATA SHEET

12-12-88

CHEMICAL NAME AND SYNONYMS: N/A
 CHEMICAL FAMILY: N/A TRADE NAME: #1544 ROSIN FLUX
 FORMULA: MIXTURE D.O.T. SHIPPING CLASS: FLAMMABLE LIQUID, N.O.S.

I. PHYSICAL DATA

BOILING POINT (°F)	170	SPECIFIC GRAVITY (WATER-1)	0.926
VAPOR PRESSURE (mmHg)	40	PERCENT VOLATILE (BY VOLUME)	57
VAPOR DENSITY (AIR=1)	1.8	EVAPORATION RATE (CC1 ₄ =1)	0.3
SOLUBILITY IN WATER (% by wt.)	50		
APPEARANCE AND ODOR	DARK AMBER STICKY LIQUID ALCOHOLIC ODOR		

II. HAZARDOUS INGREDIENTS

MATERIAL	%	OSHA-PEL	ACTIN TLV/STEL	C.A.S. REGISTRY #
ETHANOL	<25	1000 ppm	--	64-17-5
SEC-BUTANOL	<25	100 ppm	150 ppm	78-92-2
ROSIN	<50	N/A*	N/A*	8050-09-7
NONE OF THE INGREDIENTS IS LISTED AS CARCINOGENIC BY IARC, NTP OR OSHA				

FLUX FUMES MAY CAUSE PULMONARY IRRITATION AND LUNG DAMAGE -

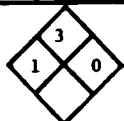
*ROSIN MAY DECOMPOSE DURING HEATING TO EMIT ABOUT 5% TURPENTINE

TLV=100ppm - ROSIN DECOMPOSES, LIBERATING CARBON, SOME ROSIN IS CARRIED UP IN THE SMOKE -

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (T.O.C.)	65°F	FLAMMABILITY LIMITS IN AIR (% by volume)	LOWER: 2.5	UPPER: 15
EXTINGUISHING MEDIA:	WATER	CARBON DIOXIDE	X	ALCOHOL FOAM X DRY CHEMICAL X
SPECIAL FIRE FIGHTING PROCEDURES	USE WATERSPRAY TO COOL FIRE EXPOSED CONTAINERS AND CONTROL VAPORS -			
UNUSUAL FIRE AND EXPLOSION HAZARDS	AUTO IGNITION TEMPERATURE IS 720°F WITHIN FLAMMABLE LIMITS -			

NFPA RATING:



The information contained herein is based on data considered accurate and given in good faith but no warranty, expressed or implied, is made.

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566-11/83

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: ACGIH TLV/STEL (150ppm); OSHA-PEL (100ppm) - SEC-BUTANOL
 EFFECTS OF OVER-EXPOSURE: EYE CONTACT WITH LIQUID CAN CAUSE IRRITATION. ROSIN IS AN ALLERGEN AND MAY CAUSE RASH, HEADACHE OR THROAT IRRITATION IN A SENSITIVE PERSON. HIGH VAPOR CONCENTRATIONS MAY INDUCE TRANSIENT NARCOSIS.
 *EMERGENCY AND FIRST AID PROCEDURES.

EYE CONTACT: FLUSH WITH WATER FOR 15 MIN AND GET MEDICAL ATTENTION

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER

INHALATION: REMOVE TO FRESH AIR

INGESTION: INDUCE VOMITING AND CALL A PHYSICIAN

ROUTES OF ENTRY: INHALATION AND INGESTION

V. REACTIVITY DATA

STABILITY:	UNSTABLE	CONDITIONS TO AVOID: SPARKS, OPEN FLAME
	STABLE X	

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING MATERIALS

HAZARDOUS DECOMPOSITION PRODUCTS: ROSIN DECOMPOSITION PRODUCTS INCLUDE CARBON DIOXIDE, CARBON MONOXIDE AND ALIPHATIC ALDEHYDES

HAZARDOUS MAY OCCUR

POLYMERIZATION: WILL NOT OCCUR X

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION. SOAK UP WITH ABSORBENT. CLEAN UP RESIDUAL WITH ALKALINE DETERGENT.

WASTE DISPOSAL METHOD: ACCORDING TO LOCAL REGULATIONS: USUALLY BY INCINERATION.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE):	NOT USUALLY REQUIRED
VENTILATION	LOCAL EXHAUST: REMOVE SMOKE/FUMES FROM BREATHING AREA MECHANICAL (GENERAL) RECOMMENDED
PROTECTIVE GLOVES:	RECOMMENDED
OTHER PROTECTIVE EQUIPMENT:	NONE
EYE PROTECTION:	SAFETY GLASSES

VIII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: AVOID EYE CONTACT. AVOID PROLONGED AND/OR REPEATED SKIN CONTACT. AVOID BREATHING SMOKE/FUMES PRODUCED DURING SOLDERING. STORE AWAY FROM SOURCES OF IGNITION.

OTHER PRECAUTIONS: NONE

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